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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/916,648	07/30/2001	Martin Birk	2000-0482	8483
26652 AT&T CORP.	7590 03/07/200	7	EXAM	IINER
ROOM 2A207		TRAN, DZUNG D		
ONE AT&T WAY BEDMINSTER, NJ 07921			ART UNIT	PAPER NUMBER
	-, - · · · · · · - ·		2613	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)			
	09/916,648	BIRK ET AL.			
Office Action Summary	Examiner	Art Unit			
	Dzung D. Tran	2613			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was precised to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time 17 rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	Lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 07 De	ecember 2006.				
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.	•			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 107 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

Specification

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thompson et al. U.S. Patent no. 6,282,005.

Regarding claim 1, Thompson discloses in Figure 4, a method for delivering a plurality of video blocks to a user terminal serviced by a remote node comprising the steps of:

receiving, by a first WDM 152 (col. 11, lines 12-13), a broadband signal from a broadband signal source 150;

separating, by said first WDM 152, said broadband signal into a plurality of optical bands (col. 11, lines 11-13);

modulating each of the plurality of optical bands with a composite signal representing data (i.e., INFORMATION 1, INFORMATION 2, ..., INFORMATION N) by modulators 160, 162, 164 to form a plurality of modulated signals (col. 11, lines 28-30);

forwarding said plurality of modulated signals to a second WDM 166 to form a combined broadcast signal (col. 11, line 31);

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transmitting said combined broadcast signal over feeder fiber 168 to a remote node 170; further transmitting said combined broadcast signal over distribution fiber to a user's site (e.g., figure 4 shown Information 1 to Information N to user's site); and

selecting a RF block for distribution over a distribution fiber to a conventional satellite set-up box at a user's site (col. 8, lines 49-67).

Figure 4 of Thompson differs from claim 1 of the present invention in that Figure 4 does not specifically discloses INFORMATION 1, INFORMATION 2, ..., INFORMATION N are RF INFORMATION blocks. However, Figure 5 of Thompson shown INFORMATION 1, INFORMATION 2, ..., INFORMATION N are RF INFORMATION blocks. Thus, if it is not inherently, it would have been obvious to an artisan to replace the RF INFORMATION 1, RF INFORMATION 2, ..., RF INFORMATION N blocks of Figure 5 with the INFORMATION 1, INFORMATION 2, ..., INFORMATION N of Figure 4 of Thompson. One of skill in the art would have been motivated to do that in order to provide a bandwidth efficient way of delivering multiple broadcast service on such a network using broadband spontaneous emission optical source.

3. Claims 2-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thompson et al. U.S. Patent no. 6,282,005 in view of Lam U.S. Patent no. 6,721,506.

Regarding claim 2, Thompson discloses all the limitation except for optical bands match a Free Spectral Range (FSR) of a Waveguide Grating Router (WGR) at said remote node. Lam, from the same field of endeavor, discloses a method and system deliver multiple-band broadcast service in a network such as WDM PON (abstract) having WDM remote node 120 consists of wavelength router called wavelength grating

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router (WGR) operates at optical bands match a Free Spectral Range (FSR) of a Waveguide Grating Router (WGR) (col. 1, line 34 to col. 2, line 40). At the time of the invention was made, it would have been obvious to an artisan to implement the teaching of Lam that is a method of deliver multiple-band broadcast service in a network such as WDM PON (abstract) having WDM remote node consists of wavelength router called wavelength grating router (WGR) operates at optical bands match a Free Spectral Range (FSR) of a Waveguide Grating Router (WGR) in the system of the combination of Thompson. One of skill in the art would have been motivated to do that in order to provide a bandwidth efficient way of delivering multiple broadcast service on such a network using broadband spontaneous emission optical source (col. 1, line 11-14 of Lam)

Regarding claims 3 and 4, Lam discloses forwarding step further comprises the step of selecting a stack of RF blocks using an optical filter nominally matched to one of said first WDM's optical bands at said user's site, wherein said stack of RF blocks represents one optical band of said plurality of optical bands and bandpass filtering said block-converted stack of RF blocks to retrieve said selected RF block (col. 4, line 40 to col. 5, line 34).

Regarding claim 5, Lam discloses in figure 15, combined broadcast signal (e.g., from 1510) is passively split (e.g., by WDM 1520) and introduced to said WGR 1530 on a plurality of said WGR's input ports.

Regarding claim 6, Lam discloses EDFA or PDFA for amplifying broadcast signal (col. 3, lines 17-19). Furthermore, it is notoriously known that optical amplifiers can be

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placed anywhere along the transmission path in an optical system to boost the signal and to restore the signal to a desire level.

4. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Thompson et al. U.S. Patent no. 6,282,005 in view of Lam U.S. Patent no. 6,721,506 and further in view of Lu et al. U.S. Patent no. 5,880,865.

Regarding claim 7, Thompson and Lam disclose all the limitation except for delivery of a plurality of video blocks is augmented to additionally include delivery of switched services by using an additional narrowband signal source to provide a narrowband signal and by using an additional coarse WDM (CWDM) to detect and select said switched services prior to introduction of said passively split combined broadcast signal to said WGR. Lu discloses in figure 7, delivery of a plurality of video blocks is augmented to additionally include delivery of switched services by using an additional narrowband signal source to provide a narrowband signal and by using an additional coarse WDM (CWDM) to detect and select said switched services prior to introduction of said passively split combined broadcast signal to said WGR (col. 5, lines 17-40). At the time of the invention was made, it would have been obvious to an artisan to implement the teaching of Lu in the combination system of Thompson and Lam. One of skill in the art would have been motivated to do that in order to provide better service to customers and reduce cost for delivery of both switched services and analog-video broadcast over a PON (col. 3, lines 60-62 of Lu).

Response to Argument

5. Applicant's arguments filed on 06/01/2006 have been fully considered but they are not persuasive.

A. Rejection of claims 1-7 under *USC* § 103(a) as being unpatentable over Thompson et al. U.S. Patent no. 6,282,005 in view of Ostman U.S. Patent no. 5,786,782.

Applicant argues that Figure 5 does not separate the optical signal as called for by the claim and the Examiner 's combination of two embodiments that operate in completely different ways is misplaced. Examiner respectfully submits that Figure 4 of Thompson discloses all the limitations in claim 1, he does not specifically call the INFORMATION 1, INFORMATION 2, ..., INFORMATION N blocks are RF INFORMATION blocks and Figure 5 discloses RF INFORMATION blocks and it would have been obvious to an artisan to replace the RF INFORMATION 1, RF INFORMATION 2, ..., RF INFORMATION N blocks of Figure 5 with the INFORMATION 1, INFORMATION 2, ..., INFORMATION N of Figure 4 of Thompson.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE

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MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dzung D Tran whose telephone number is (571) 272-

3025. The examiner can normally be reached on 9:00 AM - 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dzung Tran 02/25/2007

DZUNG TRAN

PRIMARY PATENT EXAMINER